

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-37.
- After this Amendment: Claims 1-4, 6, 8-11, 14-16, 18-24, 26, 30-34, and 36.

Non-Elected, Canceled, or Withdrawn claims: 5, 7, 12-13, 17, 25, 27-29, 35, and 37.

Amended claims: 1, 9-11, 16, 20-21, and 30-33.

New claims: None.

Claims:

1. (Currently Amended) A method of computing, comprising receiving portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream;

extracting, from the program specific information, at least one program identifier associated with data in the packetized, multi-program transport stream; **[and]**

retrieving from the program identifier at least one program association table;

retrieving from the program association table at least one program map table; and

providing the extracted **[program identifier] program association table and program map table** to an external application, wherein the external application retrieves transport stream packets that are mapped to the program map table and configures a demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.

2. (Original) The method of claim 1, wherein receiving portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream comprises monitoring the demultiplexer.

3. (Original) The method of claim 1, wherein extracting, from the program specific information, at least one program identifier associated with data in the packetized, multi-program transport stream comprises retrieving from the packetized, multi-program transport stream, data that identifies the multiple programs in the transport stream.

4. (Currently Amended) The method of claim 3, wherein the packetized, multi-program transport stream is an MPEG-2 transport stream **[and the extracted information comprises information from a program association table]**.

5. (Canceled)

6. (Original) The method of claim 1, wherein providing the extracted program identifier to an external application comprises presenting the program identifier in an application program interface accessible by the external application.

7. (Canceled)

8. (Original) A computer-readable medium having computer-executable instructions for performing the method recited in claim 1.

9. (Currently Amended) A method of processing a packetized, multi-program transport stream, comprising:

extracting program specific information from the packetized, multi-program transport stream;

parsing the program specific information to obtain at least one program identifier associated with a program in the packetized, multi-program transport stream; ~~and~~

retrieving from the program identifier at least one program association table;

retrieving from the program association table at least one program map table;

configuring an output of a demultiplexer based on ~~[the at least one program identifier]~~ **the program association table and program map table.**

10. (Currently Amended) The method of claim 9, wherein extracting program specific information from the packetized, multi-program transport stream invoking an application programming interface to retrieve program specific information from ~~[a]~~ **the** demultiplexer.

11. (Currently Amended) The method of claim 9, wherein the packetized, multi-program transport stream is an MPEG-2 transport stream ~~[and~~

~~the extracted information comprises information from a program association table].~~

12. (Canceled)

13. (Canceled)

14. (Original) The method of claim 9, wherein configuring an output of a demultiplexer based on the at least one program identifier comprises mapping the at least one program identifier to an output pin of the demultiplexer.

15. (Original) A computer-readable medium having computer-executable instructions for performing the method recited in claim 9.

16. (Currently Amended) A method of computing, comprising:
obtaining a plurality of program identifiers from a received MPEG-2 transport stream; and
presenting the plurality of program identifiers in a user interface;

receiving, from the user interface, a signal indicating a program identifier selected from the plurality of program identifiers in the MPEG-2 transport stream; ~~[and]~~

retrieving from the program identifier at least one program association table;

retrieving from the program association table at least one program map table; and

configuring a MPEG-2 demultiplexer based on the selected program ~~[identifier]~~ **association table and program map table to output transport stream packets that are mapped to the program map table.**

17. (Canceled)

18. (Original) The method of claim 16, wherein configuring an MPEG-2 demultiplexer based on the selected program identifier comprises mapping an audio stream from the selected program to an audio output pin of the multiplexer.

19. (Original) The method of claim 16, wherein configuring an MPEG-2 demultiplexer based on the selected program identifier comprises mapping a video stream from the selected program to a video output pin of the multiplexer.

20. (Currently Amended) A computer-readable medium having computer-executable instructions for performing the steps recited in claim ~~15~~ **16**.

21. (Currently Amended) An apparatus comprising:

means for receiving portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream;

means for extracting, from the program specific information, at least one program identifier associated with data in the packetized, multi-program transport stream; ~~and~~

means for retrieving from the program identifier at least one program association table;

means for retrieving from the program association table at least one program map table;

means for providing the extracted program **[identifier]** **association table and program map table** to an external application,

wherein the external application retrieves transport stream packets that are mapped to the program map table and configures a demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.

22. (Original) The apparatus of claim 21, wherein the means for receiving portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream comprises a demultiplexer filter implemented as a software object in a filter graph.

23. (Original) The apparatus of claim 21, wherein the means for extracting, from the program specific information, at least one program identifier associated with data in the packetized, multi-program transport stream comprises a parser filter implemented as a software object in a filter graph.

24. (Original) The apparatus of claim 23, wherein the parser filter supports an API for retrieving program specific information from the transport stream.

25. (Canceled)

26. (Original) The apparatus of claim 21, wherein the external application comprises a user interface for displaying portions of the extracted program information.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Currently Amended) A computer system, comprising:

- a display;
- a user-input device;
- a processor capable of executing logic instructions; and
- a computer readable medium comprising logic instructions for:
 - receiving portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream;

extracting, from the program specific information, at least one program identifier associated with data in the packetized, multi-program transport stream;

retrieving from the program identifier at least one program association table;

retrieving from the program association table at least one program map table; and

providing the extracted [~~program identifier~~] **program association table and program map table** to an external application, **wherein the external application retrieves transport stream packets that are mapped to the program map table and configures a demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.**

31. (Currently Amended) A computer system, comprising:

a display;

a user-input device;

a processor capable of executing logic instructions; and

a computer readable medium comprising logic instructions for:

extracting program specific information from the packetized, multi-program transport stream;

parsing the program specific information to obtain at least one **[program-identifier] program association table and program map table** associated with a program in the packetized, multi-program transport stream; and

configuring an output of a demultiplexer based on the at least one **[program-identifier] program association table and program map table, wherein the external application retrieves transport stream packets that are mapped to the program map table and configures the demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.**

32. (Currently Amended) A computer system, comprising:

a display;

a user-input device;

a processor capable of executing logic instructions; and

a computer readable medium comprising logic instructions for:

obtaining a plurality of program identifiers from a received

MPEG-2 transport stream;

retrieving from the program identifier at least one

program association table;

retrieving from the program association table at least one program map table; and

presenting the plurality of [program-identifier] program association table and program map table in a user interface;

receiving, from the user interface, a signal indicating a [program-identifier] program association table and program map table selected from the plurality of program identifiers in the MPEG-2 transport stream; and

configuring a MPEG-2 demultiplexer based on the selected [program-identifier] program association table and program map table, wherein transport stream packets are mapped to demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.

33. (Currently Amended) An apparatus, comprising:

a demultiplexer filter implemented as a software object in a filter graph that receives portions of a packetized, multi-program transport stream including program specific information about data in the packetized, multi-program transport stream; and

a parser filter implemented as a software object in a filter graph that extracts, from the program specific information, at least one [program identifier] program association table and program map table associated with data in the packetized, multi-program transport stream;

wherein the parser filter provides at least one program identifier to an external application, **wherein the external application retrieves transport stream packets that are mapped to the program map table and configures a demultiplexer output pins to output at least one program of interest from the retrieved transport stream packets.**

34. (Previously Presented) The apparatus of claim 33, wherein the parser filter supports an API for retrieving program specific information from the transport stream.

35. (Canceled)

36. (Previously Presented) The apparatus of claim 33, wherein the external application comprises a user interface for displaying portions of the extracted program information.

37. (Canceled)